Attachment	5
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The drawings submitted with this application were declared informal by the applicant. Accordingly they have not been reviewed by a draftsperson at this time. When formal drawings are submitted, the draftsperson will perform a review.

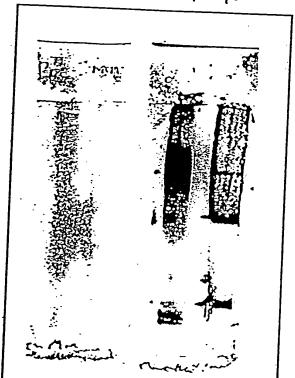
Direct any inquires concerning drawing review to the Drawing Review Branch (703) 305-8404.





Type A Toxold Type A Complex Type A Toxold
Type A Complex

KDa



145

97

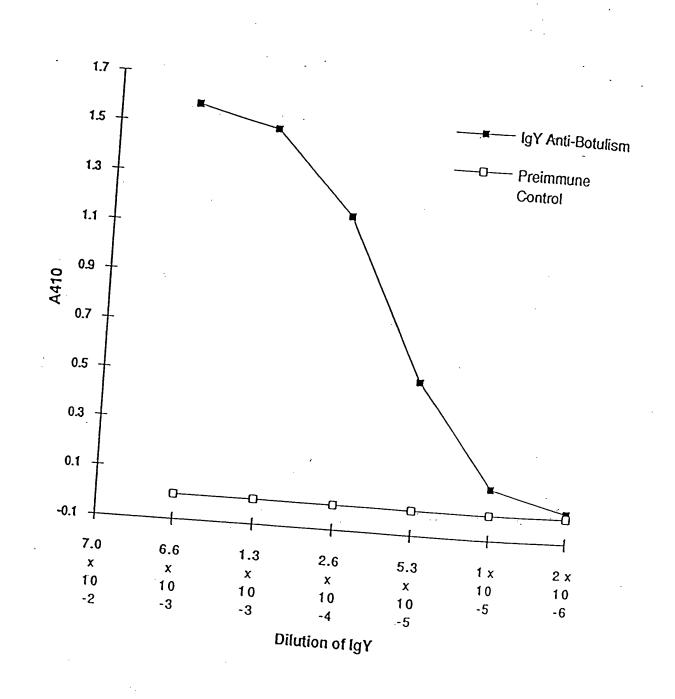
53

Preimmune IgY

Immune IgY

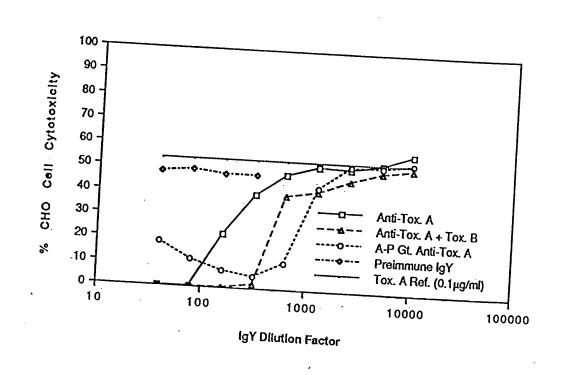


FIGURE 2



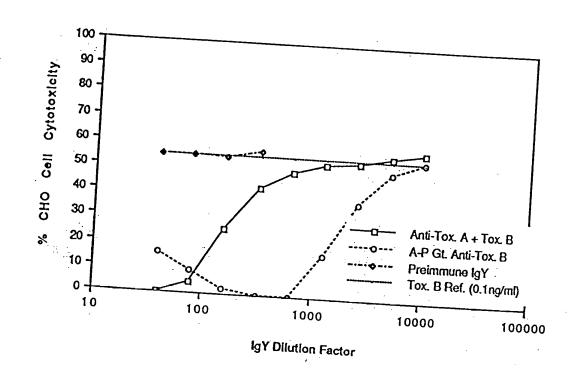




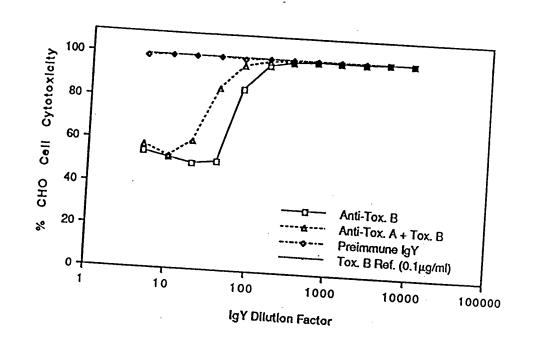




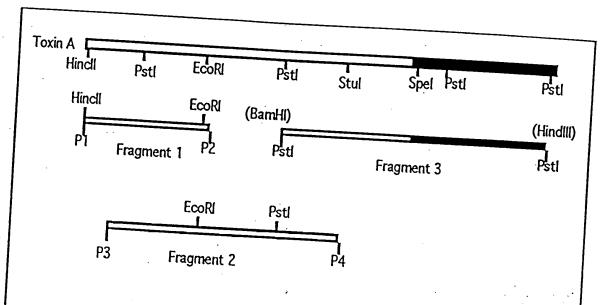




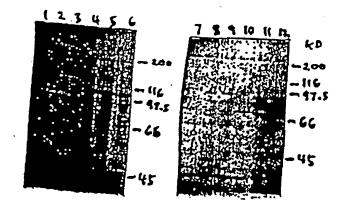




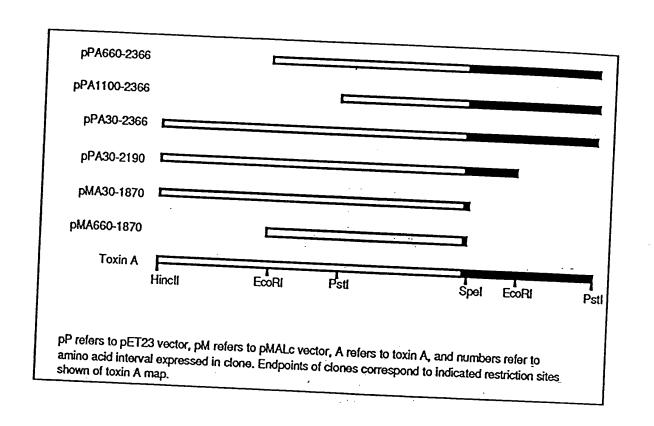


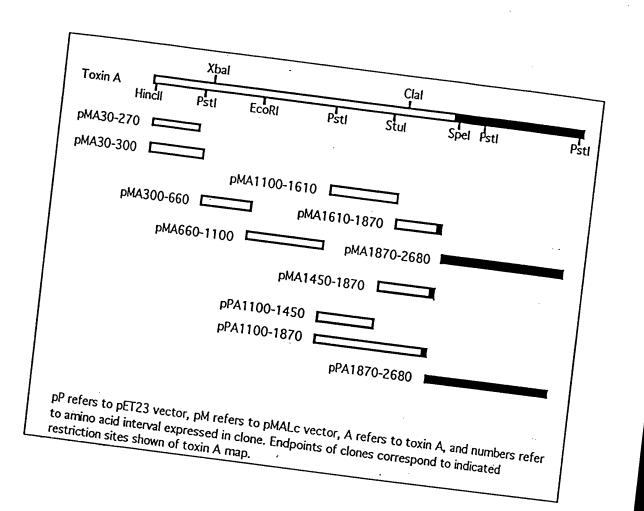


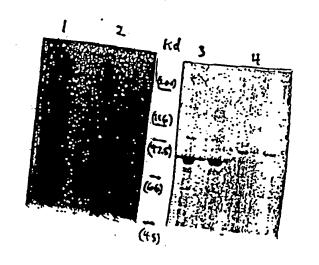
P1-P4 are PCR primers 1-4. P1=5'GGAAATTTAGCTGCAGCATCTGAC3', P2=5'TCTAGCAAATTCGCTTGTGTTGAA3',P3=5'CTCGCATATAGCATTAGACC3', P4=5'CTATCTAGGCCTAAAGTAT3'. Indicated restriction sites in fragments 1 and 2 are internal sites used to clone into pGEX2T vector (fragment 1; construct called pGA30-660) or pMALc vector (fragment 2; construct called pMA660-1100). Bracketed restriction sites at ends of fragment 3 are pUC9 polylinker sites utilized to clone fragment 3 into pET23 vector (construct called pPA1100-2680). Numbers in these constructs refer to toxin A amino acid interval that is expressed. The shaded portion of the toxin A gene corresponds to the repeating ligand binding domain.













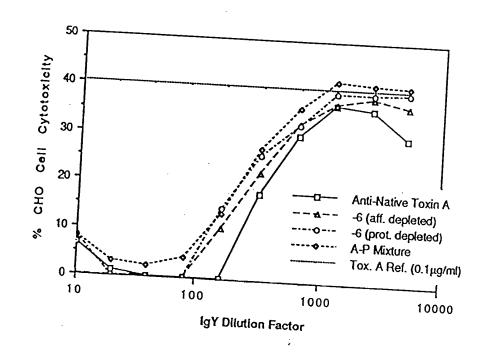


FIGURE 12

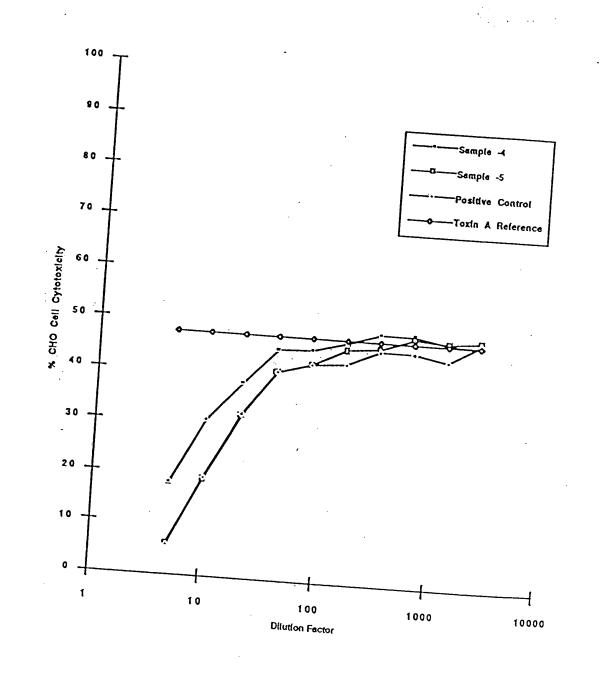
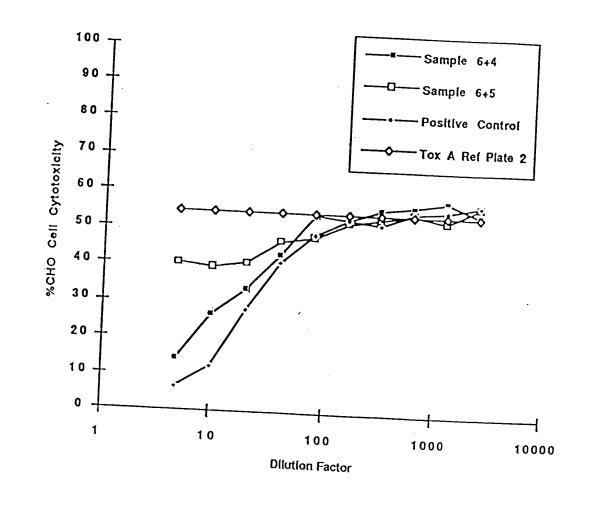
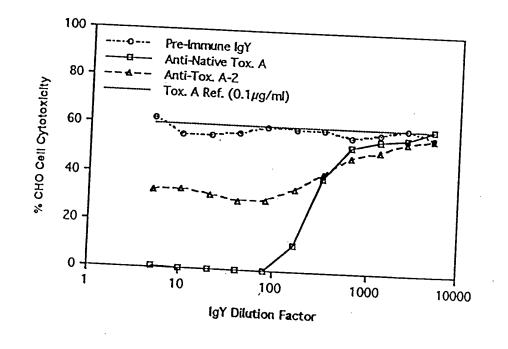


FIGURE 13

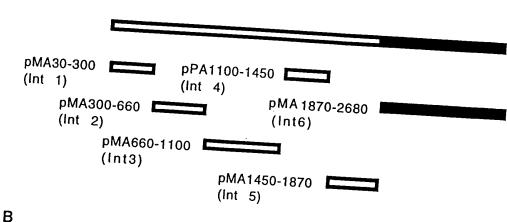


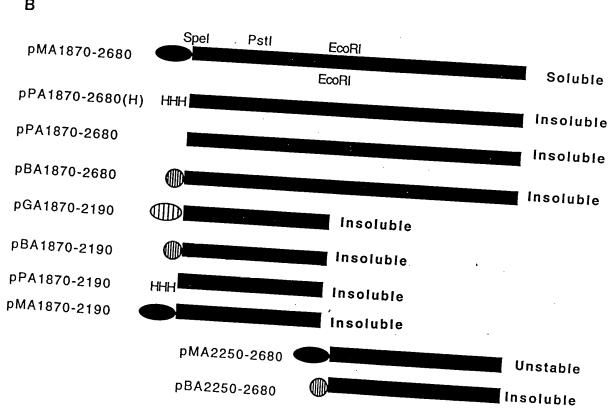


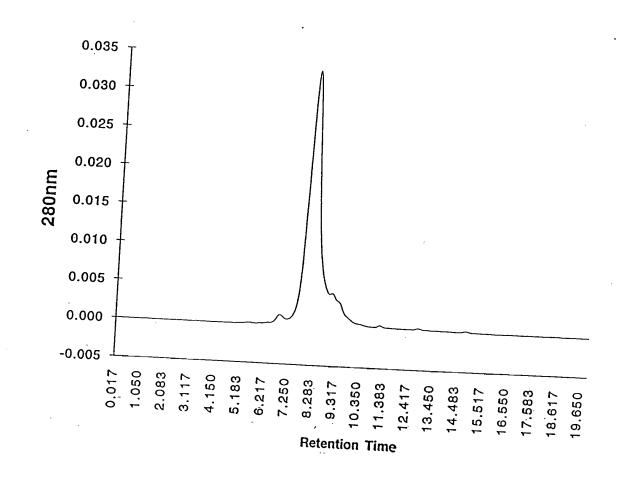


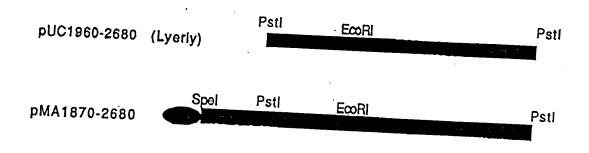




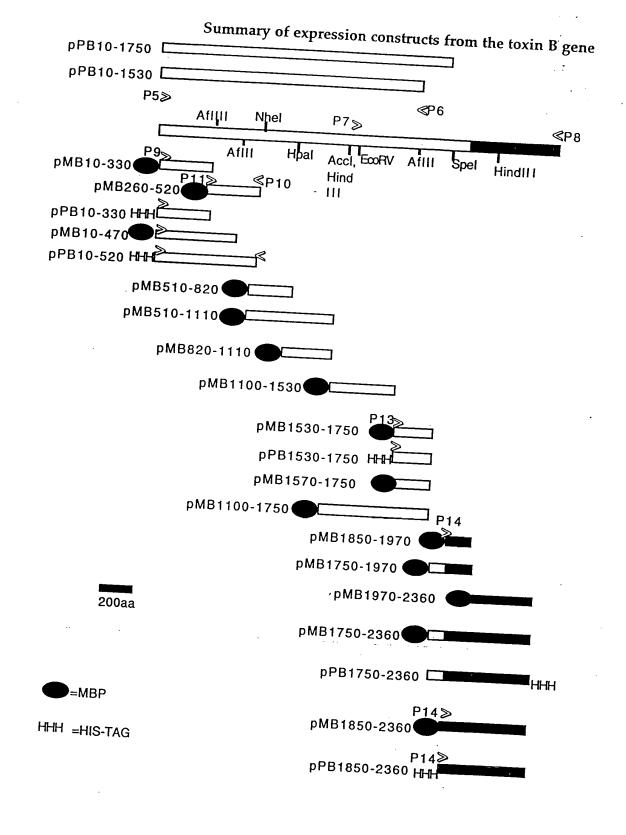




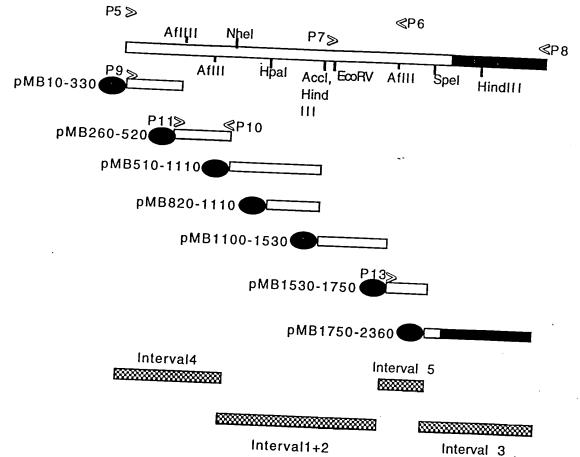




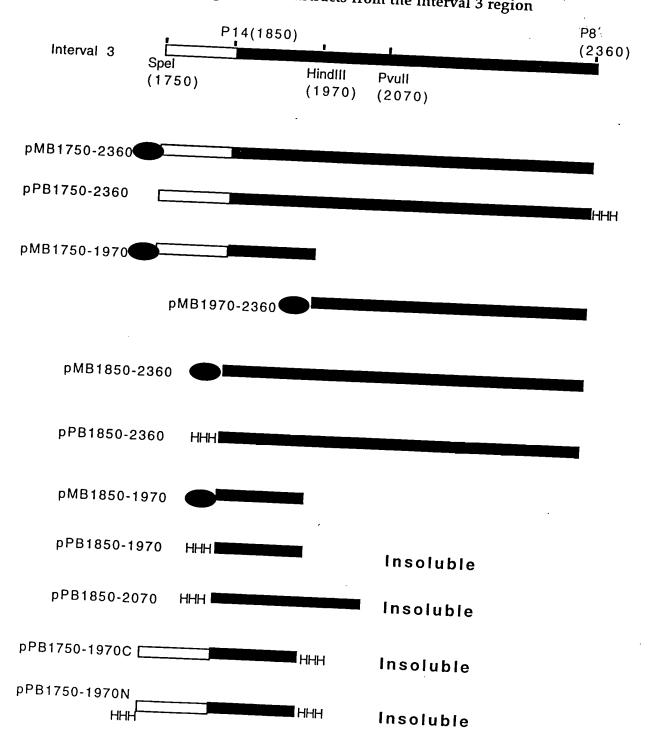




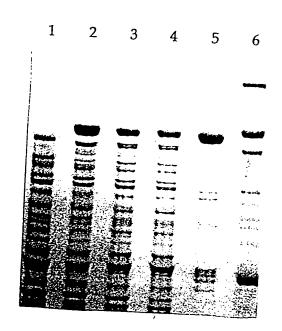
Interval specific expression constructs



Expression constructs from the interval 3 region

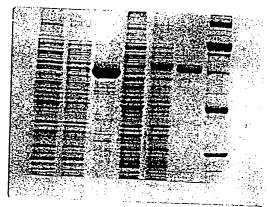




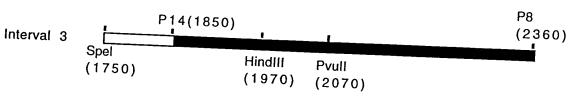




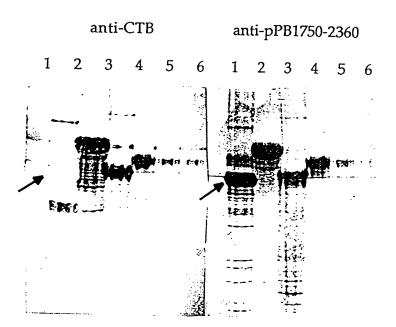




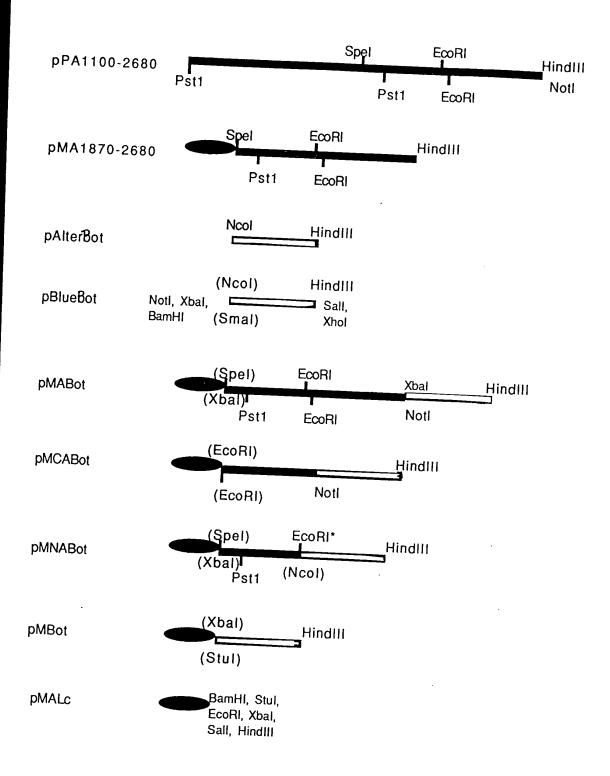
Binding of neutralizing CTB antibodies by recombinant toxin B protein

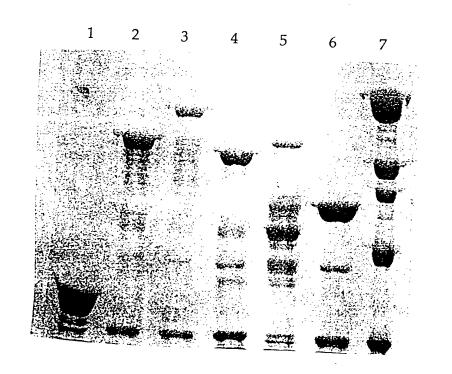




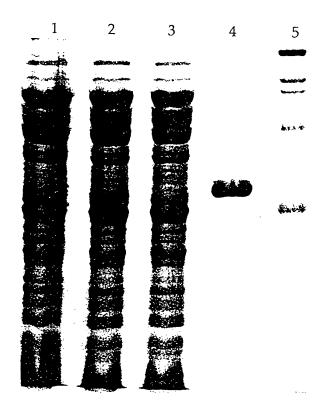




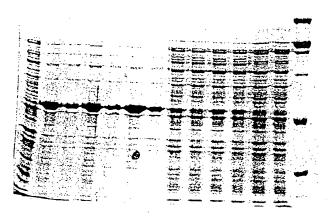


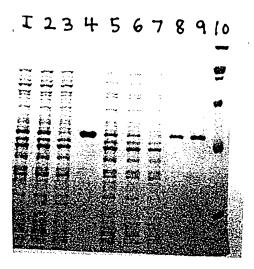


pAlterBot	Ncol	HindIII
pBlueBot	(Ncol) Notl, Xbal, BamHl (Smal)	HindIII Sall, Xhol
pMBot	(Xbal)	HindIII
pHisBot	(Ncol) H IIIII Ndel*	HindIII
pPBot	(Ncol)	HindIII
pGBot	(Notl) (Smal)	(Sall) (Xhol)



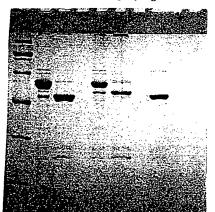
1 2 3 4 5 6 7 8 9 10 11 12 13 14

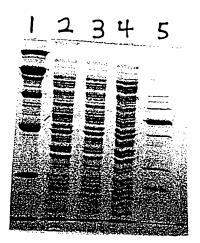


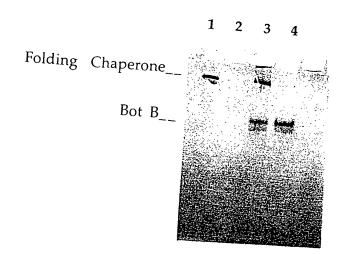




1 2 3 4 5 6 7 8

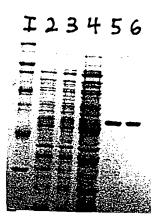












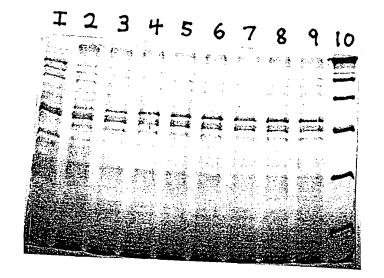


FIGURE 40

